

Notice of Allowability

Application No.

09/635,830

Examiner

Quoc A. Tran

Applicant(s)

LAYMAN ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 06/27/2006 & Interview on 09/11/2006.
2. ☒ The allowed claim(s) is/are 1-16, 42 & 45 (Renumbering as 1-18 respectively).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 09/11/2006.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

William L. Bashore
WILLIAM BASHORE
PRIMARY EXAMINER

REASONS FOR ALLOWANCE

Claims 1-16, 42, and 45 are allowed over the prior art of record.

The following is a statement of reasons for the indication of allowable subject matter:

In interpreting the claims in light of the specification and applicant's arguments, the amendment filed 06/27/2006, and interview on 09/11/2006. Examiner finds the claimed invention is patentably distinct from the prior art of record.

The prior art of record Merrick et al. US 20050166209A1 continuation of 09/274,979 filed on 03/23/1999, in view of Allen – US006658625B1 - filed 04/14/1999, which set forth in the previous rejection mailed on 01/17/2006.

The prior art of record taught most of the Applicant's claimed limitation, but does not expressly teach the generating an envelope relating to the object; generating a data structure element, having a pair of datastruct tags, wherein the datastruct tags identify the datastruct element; wherein each pair of parameter tags identifies a parameter element with which the pair of tags is associated, each parameter element having associated data between the pair of parameter tags; wherein the datastruct element and the contents are contained within the envelope.

In addition, the Examiner reads the above as an object being serializing into an envelope relating to the object <http://schmas.soap.org/soap/envelope/> and namespace identifier as, <http://schmas.soap.org/soap/envelope/> wherein the object being serializing is preserved when desrializing at the receiving with specific parameter tags identifies a parameter element with which the pair of tags is associated, each parameter element having associated data between

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the pair of parameter tags; wherein the datastruct element and the contents are contained within the envelope (see Application's specification page 28 lines 11-20 and page 30 lines 1-23).

The Examiner asserts that the claims overcome the prior art of record when the limitations are read in combination with the respective claimed limitations in their entirety.

The dependent claims, being further limiting to the independent claims, definite and enabled by the Specification are also allowed.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Paul W. Mitchell, Reg. No. 44453 Attorney for Applicant(s) on September 11, 2006.

The application has been amended as follows:

1. (PREVIOUSLY PRESENTED) A method of serializing an object, the method comprising:

generating an envelope relating to the object; generating a data structure ("datastruct") element embodied in one or more computer-readable media, the datastruct element being

representative of a data structure of a first object, the datastruct element having a pair of datastruct tags, wherein the datastruct tags identify the datastruct element;

generating contents of the datastruct element between the datastruct tags, the contents comprising one or more data parameter elements representative of one or more data parameters of the first object's data structure, each parameter element having a pair of parameter tags associated therewith, wherein each pair of parameter tags identifies a parameter element with which the pair of tags is associated, each parameter element having associated data between the pair of parameter tags;

wherein the datastruct element and the contents are contained within the envelope.

2. (ORIGINAL) A method as recited in claim 1, wherein the contents further comprise at least one object reference referencing a second object within the data structure of the first object without including the second object within the contents of the datastruct element.

3. (ORIGINAL) A method as recited in claim 2, wherein the second object is the first object.

4. (ORIGINAL) A method as recited in claim 1, wherein the contents comprises a datatype definition for at least one data parameter element.

5. (ORIGINAL) A method as recited in claim 1, wherein the contents comprises a reference to a datatype definition for at least one data parameter element.

6. (ORIGINAL) A method as recited in claim 1, wherein at least one of the pair of datastruct tags comprises a datatype definition for at least one data parameter element.

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7. (ORIGINAL) A method as recited in claim 1, wherein at least one of the pair of datastruct tags comprises a reference to a datatype definition for at least one data parameter element.

8. (ORIGINAL) A method as recited in claim 1, wherein at least one of a pair of parameter tags comprises a datatype definition for associated data between the parameter tags.

9. (ORIGINAL) A method as recited in claim 1, wherein at least one of a pair of parameter tags comprises a reference to a datatype definition for associated data between the parameter tags.

10. (ORIGINAL) A method as recited in claim 1, wherein the datastruct element and its contents are encoded using XML.

11. (ORIGINAL) A method as recited in claim 1 further comprising: inserting the datastruct element into a message; and sending the message to an entity on a network.

12. (ORIGINAL) A method as recited in claim 11 further comprising: formatting the message for sending over a network using HTTP; sending the message to an entity on the network by using HTTP.

13. (ORIGINAL) A method as recited in claim 11 further comprising: binding the message into a HTTP request; sending the message to an entity on the network by using HTTP.

14. (ORIGINAL) A method as recited in claim 1, wherein a data parameter element has the following format: `<parameter_label>` `parameter_data`

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</parameter_label>the <parameter_label> being one of the pair of parameter tags, the </parameter_label> being the other of the pair of parameter tags, and the parameter_label identifying the data parameter element; the parameter_data being the data associated with the parameter element identified by the parameter_label.

15. (ORIGINAL) A computer-readable storage medium having computer-executable instructions that, when executed by a computer, performs the method as recited in claim 1.

16. (PREVIOUSLY PRESENTED) A method of serializing an object, the method comprising: generating a data structure ("datastruct") element embodied in one or more computer-readable media, the datastruct element being representative of a data structure of a first object, the datastruct element having a pair of datastruct tags, wherein the datastruct tags identify the datastruct element; generating contents of the datastruct element between the datastruct tags, the contents comprising one or more data parameter elements representative of one or more data parameters of the first object's data structure, each parameter element having a pair of parameter tags associated therewith, wherein each pair of parameter tags identifies a parameter element with which the pair of tags is associated, each parameter element having associated data between the pair of parameter tags; and, encoding a global attribute that indicates serialization rules utilized in the acts of generating.

Claims 17-41 (CANCELED).

42. (PREVIOUSLY PRESENTED) A computer-readable storage medium having computer-executable instructions that, when executed by a computer, performs a method of

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formatting a message for exchange between entities on a network, the method comprising:
generating an envelope relating to the object; generating a data structure ("datastruct") element embodied in one or more computer-readable media, the datastruct element being representative of a data structure of a first object, the datastruct element having a pair of datastruct tags, wherein the datastruct tags identify the datastruct element; generating contents of the datastruct element between the datastruct tags, the contents comprising one or more data parameter elements representative of one or more data parameters of the first object's data structure, each parameter element having a pair of parameter tags associated therewith, wherein each pair of parameter tags identifies a parameter element with which the pair of tags is associated, each parameter element having associated data between the pair of parameter tags; wherein the datastruct element and the contents are contained within the envelope.

43. (CANCELED)

44. (CANCELED)

45. (PREVIOUSLY PRESENTED) An apparatus comprising: a processor; an object serializer executable on the processor to: generate a data structure ("datastruct") element representative of a data structure of a first object, the datastruct element having a pair of datastruct tags, wherein the datastruct tags identify the datastruct element; generate contents of the datastruct element between the datastruct tags, the contents comprising one or more data parameter elements representative of one or more data parameters of the first object's data structure, each parameter element having a pair of parameter tags associated therewith, wherein each pair of parameter tags identifies a parameter element with which the pair of tags is

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associated, each parameter element having associated data between the parameter tags; and, encode a global attribute that indicates serialization rules utilized in the acts of generating.

46. (CANCELED)

47. (CANCELED)

48. (CANCELED)

49. (CANCELED)

50. (CANCELED)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is (571) 272-4103. The examiner can normally be reached on Monday through Friday from 8 AM to 4:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Herndon R. Heather can be reached on (571) -272-4136. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quoc A, Tran
Patent Examiner
Technology Center 2176
September 11, 2006

William L. Bashore
WILLIAM BASHORE
PRIMARY EXAMINER